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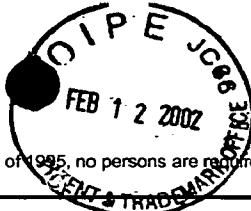
Application Number	08/579,072
Filing Date	December 22, 1995
First Named Inventor	Adam S. Wyszynski
Art Unit	2744
Examiner Name	N. Maung
Attorney Docket Number	49581-P006US-09604915

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS						Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY		
		Number	Kind Code ² (if known)				
A	4,581,643			Carlson	04-08-1986		
B	4,726,072			Yamashita et al.	02-16-1988		
C	4,742,566			Nordholt et al.	05-03-1988		
D	4,979,230			Marz	12-18-1990		
E	5,038,404			Marz	08-06-1991		
F	5,060,297			Ma et al.	10-22-1991		
G	5,140,198			Atherly et al.	08-18-1992		
H	5,200,826			Seong	04-06-1993		
I	5,311,318			Dobrovolny	05-10-1994		
J	5,321,852			Seong	06-14-1994		
K	5,390,346			Marz	02-14-1995		
L	5,428,836			Sanecki et al.	06-27-1995		
M	5,563,545			Scheinberg	10-08-1996		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

EXAMINER'S INITIALS - CITE NO. - REFERENCE		
Examiner Initials'	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	N	Meyer, Robert G. "A 1-GHz BiCMOS RF Front-End IC." IEEE Journal of Solid-State Circuits; Vol. 29 No. 3 (March 1994): 350-355.
	O	Kinget, Peter and Michiel Steyaert. "A 1 GHz CMOS Upconversion Mixer". IEEE Custom Integrated Circuits Conference. (1996) 197-200.
	P	Crols, Jan, and Michel S. J. Steyaert. "A 1.5 GHz Highly Linear CMOS Downconversion Mixer." IEEE Journal of Solid-State Circuits. Vol. 30 No. 7 (July 1995). 736-742.
	Q	Kuhn, William B., William Stephenson, and Aicha Elshabini-Riad. "A 200 MHz CMOS Q-Enhanced LC Bandpass Filter." IEEE Journal of Solid-State Circuits. Vol. 31 No. 8 (August 1996). 1112-1122.
	R	Razavi, Behzad, Kwing F. Lee, Ran-Hong Yan, and Robert G. Swartz. "A 3-GHz 25-mW CMOS Phase-Locked Loop." 1994 Symposium on VLSI Circuits Digest of Technical Papers. (1994). 131-132.
	S	McGinn, Mike. "An Advanced I.F. Amplifier & AFT System Suitable for HDTV." IEEE Transactions on Consumer Electronics. Vol. 36 No. 3 (August 1990) 407-414.
	T	Okanobu, Taiwa, Hitoshi Tomiyama, and Hiroshi Arimoto. "Advanced Low Voltage Single Chip Radio IC." IEEE Transactions on Consumer Electronics . Vol. 38 No. 3. (August 1992) 465-475.
	U	Crols, Jan, and Michiel Steyaert. "An Analog Integrated Polyphase Filter for a High Performance Low-IF Receiver." 1995 Symposium on VLSI Circuits Digest Of Technical Papers. (1995) 87-88.
	V	Anadigics, Inc. CATV/TV/CABLE MODEM UPCONVERTER MMIC. Warren NJ (April 22, 1998).
	W	Anadigics Inc. VHF/UHF CATV/TV Tuner Dowconverter. Warren, NJ. (April 22, 1998).
	X	Anadigics, Inc. Anagics Technical Brief. Upconverter MMIC for CATV Preliminary. Warren, NJ. (January 11, 1994).
	Y	Racanelli, Marco et al. " RF BiCMOS Technology for Highly Integrated Wireless Systems." 1999 IEEE RFIC Symposium. (1999)
	Z	Kimura, Katsuji. "A Bipolar Four-Quadrant Analog Quarter-Square Multiplier Consisting of Unbalanced Emitter-Coupled Pairs and Expansions of Its Input Ranges." IEEE Journal of Solid-State Circuits. Vol. 29 No. 1 (January 1994) 46-55.
	AA	Archer, John, and John Granlund, and Robert E. Mauzy. "A Broad-Band UHF Mixer Exhibiting High Image Rejection over a Multidecade Baseband Frequency Range." IEEE



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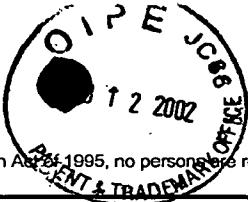
Sheet 2 of 3

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First Named Inventor	Adam S. Wyszynski
Group Art Unit	2744
Examiner Name	N. Maung

Attorney Docket Number 49581-P006US-09604915

AB	Journal of Solid-State Circuits, Vol. SC-16 No. 4 (August 1981) 385-392.
AC	Boutin, Noel. "Complex Signals: Part 1" RF Featured Technology. (December 1989). 27-75.
AD	"Double-balanced mixer and oscillator" Phillips Semiconductors. (November 7, 1997). 1-11
AE	Gilbert, Barrie. "Demystifying the Mixer" Analog Devices Inc. (April 1994). 1-58.
AF	Kuhn, William B. "Design of Monolithically Integrated Radio Transceivers" Kansas State University. 1996 /RC/
AG	Sato, Akihiro, et al. "Development of an Adjustment Free Audio Tuner IC" IEEE Transactions on Consumer Electronics, Vol. 42 No. 3. (August 1996). 328-334.
AH	Scheinberg, N., et al. "A GaAs Up Converter Interated Circuit for a Double Conversion Cable TV "Set-Top" Tuner" International Conference on Consumer Electronics. (June 1993). 108-109.
AI	Maier, G.M., et al. "Double Conversion Tuner a Must for the Future?" IEEE Transaction on Consumer Electronics, Vol. 38, No. 3. (August 1992). 384-388.
AJ	Moloney, Daniel M., et al. "Expanded Bandwidth Requirements in CATV Applications." NCTA Technical Papers. (1992). 200-206.
AK	Gilbert, Barrie and Baines, Rupert. "Fundamentals of Active Mixers" Applied Microwave and Wireless. (1995). 10-27.
AL	Muller, J-E., et al. "A Double-Conversion Broad Band TV Tuner with GaAs ICs." GaAs IC Symposium Technical Digest. (1984). 97-98.
AM	Nakatsuka, T., et al. , "Low Distortion and Low Noise Oscillator Mixer for CATV Converters." GaAs Symposium Technical Digest. (1988). 161-164.
AN	Brady, Vernon, et al. "Development of a Monolithic FET Ka-Band Single Side Band UConverter and Image Reject Downconverter." GaAs Symposium Technical Digest (October 1989) 189-192.
AO	Ablassmeier, Ulrich, et al. "GaAs FET Upconverter for TV Tuner" IEEE Transactions on Electron Devides, Vol ED-27, No. 6. (June 1980). 1156-1159.
AP	Pratt, William J. "High Linearity HBT Amplifier Targets Multicarrier Systems" RF Design. (March 1996). 47-54.
AQ	Pandula, Louis. "Image Reect and Image Canceling Mixers" RF Design. (April 1995). 60-65.
AR	Leffel, Michael. "Intermodulation Distortion in a Multi-Signal Environment" RF Design. (June 1995). 78-84.
AS	Meyer, Robert G. "Intermodulation in High-Frequency Bipolar Transistor Integrated-Circuit Mixers." IEEE Journal of Solid-State Circuits, Vol. SC-21, No. 4. (August 1986). 534-537.
AT	Giles, Martin. "The LM 1823: A High Quality TV Video I.F. Amplifier and Synchronous Detector for Cable Receivers." National Semiconductor Corporation. (March 1985). 1-16.
AU	Svelto, F., et al. "A Low-Voltage Topology After CMOS RF Mixers." IEEE Transactions on Consumer Electronics., Vol. 45, No. 2 (May 1999). 299- 309.
AV	Otaka, Shoji, et al. "A Low Local Input Power 1.9 GHz Si-Bipolar Quadrature Modulator without Any Adjustment." Bipolar/BiCMOS Circuits and Technology Meeting. (1994). 171-174.
AW	Gilbert, Barrie. "The MICROMIXER: A highly Linear Variant of the Gilbert Mixer using a Bisymmetric Class-AB Input Stage" IEEE Journal of Solid-State Circuits, Vol. 32, No. 9, (September 1997). 1412-1423.
AX	Ducourant, Thierry, et al. "A 3 Chip GaAs Double Conversion TV Tuner System with 70 db Image Rejection." Monolithic Circuits Symposium Digest of Papers. (1988). 87-90.
AY	Torji, K., et al. "monolithic Integrated VHF TV Tuner." IEEE Transactions on Consumer Electronics, Vol. CE-26. (May 1980). 180-189.
AZ	Altes, Stephen K., et al. "Monolithic RC All-Pass Networks with Constant-Phase -Difference Outputs." IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-34, No. 12. (December 1986). 1533-1537.
BA	MC13143: Ultra Low Power DC-2.4 GHz Linear Mixer. Motorola, Inc. Issue 2. (1996). 1-8.



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	BB	HP 8561A and HP 8562A/B Portable Spectrum Analyzers. Hewlett-Packard. (July 1989)
	BC	MC44302: Advanced Multi-Standard TV Video/Sound IF. Motorola, Inc. (June 17, 1994)
	BD	"NCTA Recommended Practices for Measurements on Cable Television Systems." National Cable Television Association. 2nd Ed. (1993). 1-13
	BE	Maier, Gerd M. "New System Approach to TV Tuner Design." IEEE Transactions on Consumer Electronics, Vol. 36, No. 3. (August 1990). 403-406.
	BF	Charbon, Edoardo, et al. "A Performance-Driven Router for RF and Microwave Analog Circuit Design." Department of Electrical Engineering and Computer Sciences, University of California, Berkeley. 1992 /RC/
	BG	Koullias,Iconomos, A., et al. "A 900MHz Transceiver Chip Set for Dual-Mode Cellular Mobile Terminals." IEEE International Solid-State Circuits Conference. (1993). 140-141.
	BH	McDonald, Mark D. "A 2.5GHz BiCMOS Image-Reject Front-End" IEEE International Solid-State Circuits Conference. (1993). 144-145.
	BI	Lovelace, David, et al. "Silicon Upconverter RF IC Simplifies Cable Modem Designs" Microwaves & RF (March 1997). 136-142.
	BJ	Lovelace, David, et al. "Innovative Simulator Models Silicon Upconverter RF IC" Microwaves & RF. (April 1997). 106-109.
	BK	Farmer, James O. "Specifications for Tuner Design for use in Cable Ready Television Receivers and VCRs." IEEE Transactions on Consumer Electronics, Vol. 36, No. 3., (August 1990). 660-668.
	BL	Abidi, Asad A. "Direct-Conversion Radio Transceivers for Digital Communications." IEEE International Solid-State Circuits Conference. (1995). 186-187; 363-364.
	BM	Kokozinski, Rainer, et al. "Microwave Wideband Amplifiers In Bulk-CMOS/SIMOX Technologies." IEEE International Solid-State Circuits Conference. (1995). 146-147; 188-189.
	BN	Kimura, Katsuji. "The Ultra-Multi-Tanh Technique for Bipolar Linear Transconductance Amplifiers." IEEE Transactions on Circuits and Systems -1: Fundamental Theory and Applications. Vol. 44, No. 4. (April 1997). 288-302.
	BO	Al-Hashimi, Bashir. "Understand the Fundamentals of Passive Video Filters." Microwaves & RF. (May 1996). 171-178.
	BP	Long, John R., et al. "A Low-Voltage Silicon Bipolar RF Front -End for PCN Receiver Applications." IEEE International Solid-State Circuits Conference. (1995). 104-105; 140-141.
	BQ	Sabin, William E. & Edgar O. Schoenike. "Single -Sideband Systems & Circuits." McGraw Hill Book Company. New York. (1987). 88-134, 181-213.

Examiner Signature	N. Maung	Date Considered	4/19/03
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